

## Cytokeratin 19 Polyclonal antibody

Catalog Number: 10712-1-AP

153 Publications

## Basic Information

## Catalog Number:

10712-1-AP

## Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG1085

## GenBank Accession Number:

BC007628

## GeneID (NCBI):

3880

## UNIPROT ID:

P08727

## Full Name:

keratin 19

## Calculated MW:

40 kDa

## Observed MW:

44-50 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB: 1:3000-1:30000

IHC: 1:10000-1:40000

IF-P: 1:10-1:100

IF/ICC: 1:200-1:800

FC (Intra): 0.80 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

## Tested Applications:

WB, IHC, IF/ICC, IF-P, FC (Intra), ELISA

## Cited Applications:

WB, IHC, IF

## Species Specificity:

human, mouse

## Cited Species:

human, mouse, rat, pig, canine, goat, dog

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Positive Controls:

**WB:** A431 cells, A549 cells, mouse brain tissue, mouse placenta tissue, HepG2 cells, HT-29 cells

**IHC:** human colon tissue, human breast cancer tissue, human lung cancer tissue, human oesophagus cancer tissue, human pancreas tissue, human skin tissue, human stomach cancer tissue, human thyroid cancer tissue, mouse colon tissue, mouse pancreas tissue, mouse skin tissue

**IF-P:** Retinal organoids, mouse pancreas tissue

**IF/ICC:** HaCaT cells, HeLa cells, HepG2 cells

**FC (Intra):** MCF-7 cells,

## Background Information

Keratins are a large family of proteins that form the intermediate filament cytoskeleton of epithelial cells. Keratin expression is highly regulated, tissue specific, and varies according to cell-state. Type I keratins consist of acidic, low molecular weight proteins with MW ranging from 40 kDa (KRT19) to 64 kDa (KRT9). Type 2 keratins consist of basic or neutral, high molecular weight proteins with MW from 52 kDa (KRT8) to 67 kDa (KRT18). Keratin 19 is a type I cytokeratin. It is a biochemical marker of skin stem cells in vivo and in vitro.

## Notable Publications

Author	Pubmed ID	Journal	Application
Takako Tabata	31569508	Vaccines (Basel)	IF
Sandra Ruiz García	31558434	Development	IF
Zichun Gu	28975248	JAMA Facial Plast Surg	IHC

## Storage

## Storage:

Store at -20°C. Stable for one year after shipment.

## Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

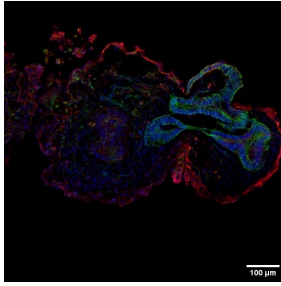
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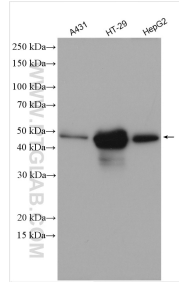
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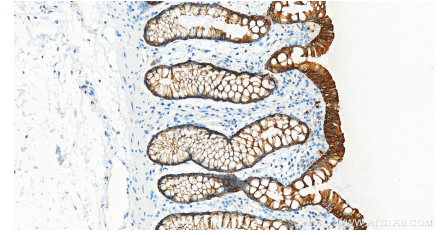
## Selected Validation Data



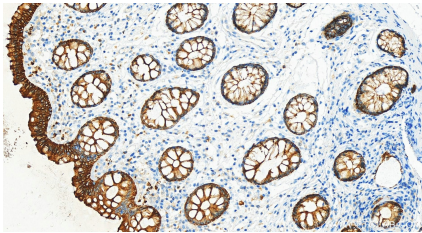
Retinal organoids (day 60) generated from human induced pluripotent stem cells (iPSCs) and fixed with 4% PFA. Stained for Tubulin beta 3/TUJ1 using 66375-1-Ig at 1:500 dilution (green) and Cytokeratin 19 using 10712-1-AP at 1:200 (red). Nuclear stain DAPI (blue). Scale bar = 100  $\mu$ m. Data generated by Alessandro Bellapianta at Johannes Kepler Universitat, Austria.



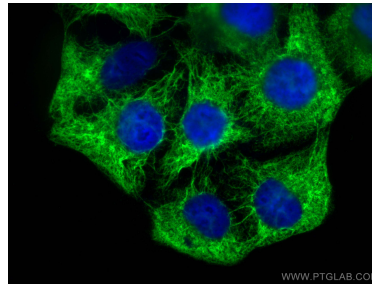
Various lysates were subjected to SDS PAGE followed by western blot with 10712-1-AP (Cytokeratin 19 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



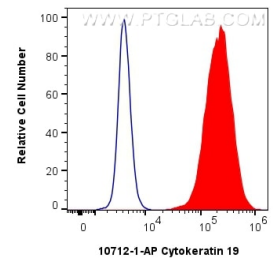
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 10712-1-AP (Cytokeratin 19 antibody) at dilution of 1:20000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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Immunofluorescent analysis of (-20°C Methanol) fixed HaCaT cells using Cytokeratin 19 antibody (10712-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



$1 \times 10^6$  MCF-7 cells were intracellularly stained with 0.8  $\mu$ g Cytokeratin 19 Polyclonal antibody (10712-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.8  $\mu$ g Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).